



SIEMENS

Building Technologies

APOGEE Integration
Compatible Products Guide



Compatibility by design, integration through service

Integrate with the APOGEE® Automation System and you have our commitment to a solution that works.

Factory Engineers have followed internationally recognized standards to design, develop and test the integration solutions found in this brochure. This ensures you receive the highest quality product. All solutions have been installed and are currently in use at customer sites. Our approach assures the highest level of reliability in implementation, something not all integrators can claim.

Compatibility is only the first step in assuring the success of a systems integration project. The comprehensive project management skills of your local Siemens Building Technologies office will help

you through all critical phases of a project including vendor relations, project definition, turnkey solutions, installation, commissioning and validation. Once the technical integration is completed, your Siemens Building Technologies office will work with you to customize reports and computer graphics, develop energy-saving routines, and perform periodic maintenance – all designed to assure your integrated systems are providing maximum value.

Extend the reach of your system while gaining access to the benefits of new technologies that will help run your facilities more efficiently. The APOGEE Automation System ... the right choice for today and tomorrow.

To assist owners in recognizing equipment and systems ready to be integrated into an APOGEE solution, we have developed the APOGEE Anywhere™ trademark. When it appears on a device or related literature, the trademark assures compatibility within an APOGEE-enabled infrastructure.



The following table describes the supported methods of integration used throughout this brochure.

| Supported Method | Description |
|------------------|---|
| BACnet | - Integration using ANSI/ASHRAE 135-2001 (BACnet IP or MS/TP protocol). |
| LonTalk | - Integration using LonTalk protocol per ANSI/EIA709.1. |
| Modbus | - Integration using Modbus RTU or Modbus TCP protocol. |
| OPC | - Integration using OLE (Object Linking and Embedding) for Process Control. |
| Specialty Driver | - Solutions developed to manufacturer-specific communication protocols. |
| P1 FLN | - Manufacturer device with APOGEE FLN protocol support. |
| FLN HW | - Manufacturer device controlled by APOGEE FLN hardware. |


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HVAC


Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | | |
|---|------------------------------|--|------------------|---------|--------|-----|------------------|--------|--------|---|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW | |
|  Air Systems | Aeon, Inc. | -Fan Coil Units | | | | | | | ● | |
| | | -Rooftop Units | | | | | | | | ● |
| | | Through BACnet Link to Orion -MUA II -VAV/Zone Controller (VAV/CAV) | ● | | | | | | | |
| | Air Enterprises | -Penthouse Units | | | | | | | | ● |
| | Airex - MSE | -Single Duct VAV Boxes | | | | | | | | ● |
| | Airdale, Inc. | -Air to Air Heat Pumps | | | | | | | | ● |
| | AIRTHERM, Inc. | -Fan Coil Units | | | | | | | | ● |
| | | -VAV Boxes | | | | | | | | ● |
| | Anemostat | -Fan Coil Units | | | | | | | | ● |
| | | -VAV Boxes | | | | | | | | ● |
| | APC (fka Airflow) | DataGuard 4.0 & 5.0 Controllers: | | | | ● | | | | |
| | | -AFX Series CRAC Unit -CCT – CW Series CRAC Unit | | | | | | | | |
| | | -CCT DX Series CRAC Unit -CG Series CRAC Unit | | | | | | | | |
| | | -Ceiling Unit Series CRAC Unit -Tech Cool Series CRAC Unit | | | | | | | | |
| | | -Drycell Desiccant Series -Mainframe Chiller Series | | | | | | | | |
| | | -Micro AC Controllers | | | | ● | | | | |
| | ASI Controls | -ASIC/1 Controllers | | | | | | | ● | |
| | Buffalo AHU, Inc. | -Custom Rooftop Units | | | | | | | | ● |
| | Carnes | -Fan Coil Units | | | | | | | | ● |
| | | -VAV Boxes | | | | | | | | ● |
| | Carrier Corporation | -Fan Coil Units | | | | | | | | ● |
| | | -Unit Ventilators | | | | | | | | ● |
| | | -VAV Boxes | | | | | | | | ● |
| | | Through the Carrier One Panel as a Modbus Slave: -All Carrier Equipment and Controls with Microprocessors | | | | ● | | | | |
| | | Through the DataLink: | | | | | | | ● | |
| | | -NB/NP Rooftop Units -Pressure Dependent Zone Controller | | | | | | | | |
| | | -EK/EJ/EY/EW Rooftop Units -Pressure Independent Zone Controller | | | | | | | | |
| | | -Temp System Controller -Monitor Thermostat | | | | | | | | |
| | | -Bypass Controller | | | | | | | | |
| | Climacool | -Units with DX9100 Controller | | | | | | | ● | |
| | Compu-Aire, Inc. | Through Carel Modbus Gateway: | | | | | | ● | | |
| | | -CR72 Universal CRAC Controllers | | | | | | | | |
| | Daikin | -Daikin VRV Master Station | ● | | | ● | | | | |
| | Dectron Ltd | -Custom Air Handling Units | | | | | | | | ● |
| | Denco Industries | Through Denco Millennium Access Module (MAM) | | | | | | | | ● |
| | | -Denco NGC01 CRAC Controller, rev 5.4.00 | | | | | | | | |
| | Des Champs | -Two Duct Series 85 Rooftop Units | | | | | | | | ● |
| | | -Units with DX9100 Controller | | | | | | | ● | |
| | DGH | -Controllers through Modbus Gateway | | | | ● | | | | |
| | Dri-Steam | -Units with VaporLogic 3 Controller | | | ● | | | | | |
| Dunham-Bush | -RT18MA Series Rooftop Units | | | | | | | | ● | |
| | -Unit Ventilators | | | | | | | | ● | |
| Econar Energy Systems | -Heat Pumps | | | | | | | | ● | |
| EBM | -Specialty Fans | | | | | | | ● | | |
| Energy Labs, Inc. | -Custom Air Handling Units | | | | | | | | ● | |
| Environmental Technology | -Fan Coil Units | | | | | | | | ● | |
| | -VAV Boxes | | | | | | | | ● | |



HVAC


Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | | | |
|---|--|---|----------------------------|---------|--------|-----|------------------|-------|--------|---|---|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | PI/EN | FLN/HW | | |
|  Air Systems | E.H. Price & C., Ltd. | -Fan Coil Units | | | | | | | | ● | |
| | | -VAV Boxes | | | | | | | | ● | |
| | Engineered Air | -Penthouse Units | | | | | | | | ● | |
| | Florida Heat Pump | -Heat Pump Units | | | | | | | | ● | |
| | Friedrich Climatemaster | -Heat Pump Units | | | | | | | | ● | |
| | Gaylord Industries | -2/4 Ton Rooftop Units | | | | | | | | | ● |
| | | -Penthouse Units | | | | | | | | | ● |
| | Goettl, Inc. | -Heat Pump Units | | | | | | | | | ● |
| | Governair | -Custom Air Handling Units | | | | | | | | | ● |
| | | -Rooftop Units | | | | | | | | | ● |
| | ICECAP, Inc. | -Heat Pump Units | | | | | | | | | ● |
| | Industrial Commercial Ltd. | -Penthouse Units | | | | | | | | | ● |
| | International Environmental Inc. | -Custom Air Handling Units | | | | | | | | | ● |
| | | -Rooftop Units | | | | | | | | | ● |
| | Johnson Controls, Inc. | N2 Devices: | | | | | | | | | ● |
| | | -VMA Controller | -DX9100 Controller | | | | | | | | |
| | | -AHU Controller | -VMA Controller | | | | | | | | |
| | Kooltronic, Inc. | -Unit Ventilators | | | | | | | | | ● |
| | Krueger Division (ASC) | -Fan Coil Units | | | | | | | | | ● |
| | | -VAV Boxes | | | | | | | | | ● |
| | Lennox | -Rooftop Units | | | | | | | | | ● |
| | Liebert Corporation | Through SiteLink or OpenComms NIC card: | | | | | | | | | |
| | | Environmental Units (Including Deluxe System 3 & Mini Mate) | | | | | | | | | |
| | | -C10 | -L00 | -L0B | -L10 | | | | | | |
| | | -LAM | -LSM | | | | | | | | |
| | | Chiller Units | | | | | | | | | |
| | | -CSU3000-CSU | -CSU3000 w/Economize-CSE | | | | | | | | |
| | | Monitoring Panels | | | | | | | | | |
| | | -Contact Monitors-CCM | -Water Detection Units-WDU | | | | | | | | |
| | | -RCM10U-MOR | -Remote Autochangeover-RAC | | | | | | | | |
| -Temperature/Humidity-THM | | | | | | | | | | | |
| | -PEC Units via the CEMS 100 Protocol (Europe/Asia Only) | | | | | | | | | ● | |
| Magicaire | -Fan Coil Units | | | | | | | | | ● | |
| | -Air to Air Heat Pumps | | | | | | | | | ● | |
| | -Water to Air Heat Pumps | | | | | | | | | ● | |
| | -Unit Ventilators | | | | | | | | | ● | |
| Mammoth | -Penthouse Units | | | | | | | | | ● | |
| | -V-Cube Units | | | | | | | | | ● | |
| | -Ultraline Units | | | | | | | | | ● | |
| | -Water Source Electromechanical Heat Pumps (1/2 to 12 ton) | | | | | | | | | ● | |
| | With Portal Device: | | | | | | | | | | |
| | -V-Cube Units | -Ultraline Units | | | | | | | | | |
| | With Level Two Controllers and Level One Controller: | | | | | | | | | | |
| -V-Cube Units | -Ultraline Units | | | | | | | | | ● | |
| Marcraft, Inc. | -Custom Rooftop Units | | | | | | | | | ● | |
| McQuay International | With Microtech II Controller: | | | | | | | | | | |
| | -Rooftop Units | -Unit Ventilators | ● | ● | | | | | | | |
| | -Self-Contained Units | | | | | | | | | | |






HVAC

Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|---|-------------------------------------|--|------------------|---------|--------|-----|------------------|-------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FN | FLN HW |
|  Air Systems | McQuay International | With Microtech 2000 Controllers: -Heat Pumps | | | • | | | | |
| | | With Microtech Controllers and the Open Protocol Master: -Rooftop Units -Unit Ventilators -Self-Contained Units -Heat Pumps | | | | | | • | |
| | Metal Industries | -Fan Coil Units | | | | | | | • |
| | | -VAV Boxes | | | | | | | • |
| | Nailor Industries | -Fan Coil Units | | | | | | | • |
| | | -VAV Boxes | | | | | | | • |
| | Pace, Inc. | -Penthouse Units | | | | | | | • |
| | PoolPak | With ECC III Controller: -Single Fan Units -Dual Fan Units | | | | • | | | |
| | | -TD3000 Controller | | | | • | | | |
| | | With ECC II Controller: -Single Fan Units -Dual Fan Units | | | | | | • | |
| | Pottorff | -Fan Coil Units | | | | | | | • |
| | Price & Co. | -VAV Boxes | | | | | | | • |
| | Racan, Ltd. | -Penthouse Units | | | | | | | • |
| | Rosemex, Ltd. | -Fan Coil Units | | | | | | | • |
| | Seasons 4, Inc. | -Penthouse Units | | | | | | | • |
| | SEMCO | -Units with Portal Device | | | | • | | | |
| | Siemens Building Technologies, Inc. | -DESIGO RX (Europe/Asia only) | | | | | | | • |
| | | Monogyr Central (Europe/Asia only) | | | | | | | • |
| | | -RCE88.2 Controller -RCE81.2 Controller | | | | | | | |
| | Skil/Aire, Inc. | -Fan Coil Units | | | | | | | • |
| | | -Penthouse Units | | | | | | | • |
| | Stulz | Modbus Interface (MIB): -C5000 -C4000 -C1002 | | | | • | | | |
| | | Air Technology Systems through Carel Modbus Gateway: -CyberONE Series -A-Tech 20 | | | | • | | | |
| | TCS/Basys Controls | Thermostats with N2 Protocol: -SZ1017 N -SZ1022 N -SZ1024 N | | | | | | | • |
| | | (See YORK) | | | | | | | • |
| | Tempmaster Industries, Inc. | -Unit Ventilators | | | | | | | • |
| | Titus | -Fan Coil Units | | | | | | | • |
| | Titus | -VAV Boxes | | | | | | | • |
| | | -TD1 and ZCOM Controllers | | | | | | | • |
| | Trane Company | -Fan Coil Units | | | | | | | • |
| | | -VAV Boxes | | | | | | | • |
| | Trane Company | With LonWorks Controllers -Voyager Units with LCI-V Controller -Intellipak Units with LCI-I Controller -Air Handling Units with AHU 540541 Controller -Morganizer Units with MP580 Controller -Water Source Heat Pump with ZN510/511 Controllers -Fan Coil Units with ZN510/511 Controllers -Unit Ventilators with ZN520/521 Controllers -Blowers with ZN520/521 Controllers | | | • | | | | |
| -All Units through the BCU | | | • | | | | | | |




HVAC

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | | | |
|---|--|---|------------------------------|---------|--------|-----|------------------|--------|--------|---|---|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW | | |
|  Air Systems | Warren Technologies | -VAV Boxes | | | | | | | | ● | |
| | Waterfurnace, Inc. | -Heat Pumps | | | | | | | | ● | |
| | Webco, Inc. | -Custom Rooftop Units | | | | | | | | ● | |
| | Whalen Manufacturing | -Fan Coil Units | | | | | | | | | ● |
| | | -Heat Pumps | | | | | | | | | ● |
| | Williams, Inc. | -Fan Coil Units | | | | | | | | | ● |
| | | -VAV Boxes | | | | | | | | | ● |
| | YORK International | -Tempmaster Fan Coil Units | | | | | | | | | ● |
| | | -Tempmaster Rooftop Units | | | | | | | | | ● |
| | | -Unit Ventilators | | | | | | | | | ● |
| -ECO2 Unit with OptiLogic Controller | | | ● | ● | | | | | | | |
| | -Millennium Unit with Synthesis Controller | | | ● | | | | | | | |
| | -Sunline Units | | | | | | | | ● | | |
|  Hot Water Systems | Armstrong International | -SteamEye Steam Trap Monitoring | | | | ● | | | | | |
| | | -Trapscan System Steam Trap Monitoring | | | | | | | ● | | |
| | Autoflame | -Analog I/O Units | -Digital I/O Units | | | | ● | | | | |
| | | -EGA System | -MM Systems | | | | | | | | |
| | Cleaver-Brooks | -CB780 | | | | | ● | | | ● | |
| | | -CB783 | -CB Hawk Boiler Control Unit | | | | | | | | ● |
| | | -CB Hawk Enhancer | | | | | | | ● | ● | |
| | | -CB Hawk ICS | | | | | | | ● | ● | |
| | Fireye | -E100 Flame-Monitor | -E340 Boiler Controller | | | | | | | | ● |
| | | -E110 Flame-Monitor | -E300 Expansion Unit | | | | | ● | | | ● |
| | Heat-Timer | -Multi-Mod Panels | | | | | | | | ● | |
| | Honeywell | -BCS 7700 Boiler Control System | -Data Acquisition Modules | | | | | | | | ● |
| | | -RM 7800 Boiler Control System | | | | | ● | | | | ● |
| | | -RM 7830 Expanded Annunciator | | | | | ● | | | | |
| | | -Flame Safeguard with S7810 Modbus Module | | | | | | | | | |
| Lochinvar | -Intelli-Fin Boiler | | | | ● | | | | | | |
| PULSATROL | -PULSAfeeder Blowdown System | | | | | | | | ● | | |
| Preferred Instruments | -PCC-III | | | | | ● | | | | | |
| Raypak | -B6000 Boiler Controls with T3 Interface | | | | | ● | | | | | |
| Siemens Energy and Automation | -Quadlog Boiler Control | | | | | ● | | | | | |
| Siemens Building Technologies, Inc. | -RWF 40 Temperature Controller | | | | | ● | | | | | |
| Viessmann | -Vitocom 200 Communications Interface | | | | ● | | | | | | |
|  Pumping Systems | ITT Bell and Gossett | -Technologic 5000 Series Pumping Controls | | | | ● | | | | | |
| | | -Technologic 500 Series Pumping Controls | | | | | | | ● | | |
| | Unosource Controls, Inc. | -VV8200 Series Pumping Packages & Control Systems | | | | | ● | | | | |



HVAC

Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|---|--------------------------|---|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW |
|  <p>Refrigeration Systems</p> | Carrier Corporation | Chiller with LONWORKS Translator | | | • | | | | |
| | | Through the DataLink: -19XR Centrifugal Chillers -30 GX/HX Screw Chillers -30 GT Reciprocating Chillers -16 JT and JB Absorption Chillers -23 XL Hermetic Screw Chillers | | | | | | • | |
| | | -Various Older Chiller Models Including 17EX, 19 EX, 19 XL -Chillervisor System Managers version 2 and 3 | | | | | | | |
| | | Through the Carrier One Panel as a Modbus Slave: -All Carrier Equipment and Controls with Microprocessors -Toyo Carrier Interface (China Only) | | | | • | | | |
| | Dunahm-Bush | Units with RWB-II Controllers and a ChillerLink | | | | • | | | |
| | FES | Through the ComMENT Gateway | | | | • | | • | |
| | Frick | Units with Quantum Panel | | | | | | • | |
| | | Units with ISN Panel | | | | | | • | |
| | McQuay International | With Microtech II Controller: -Water Cooled Centrifugal Chillers: WSC/ WDC/ WPV -Air-Cooled Global Scroll Chillers: AGZS/AGZD -Air-Cooled Scroll Condensing Units: ACZS/ACZD -Air-Cooled Global Screw Chiller: AGS -Water Cooled Global Scroll Chiller: WGZD | • | | | • | | | |
| | | With Microtech Controllers and the Open Protocol Master: -ALS Chiller -Chillers with older controllers | | | | | | • | |
| | Multistack | With Portal device: -MS20/30/50 Standard Unit -MS20/30/50 Heat Recovery Unit -MS20/30/50 Heat Pump Unit | • | | | • | | | |
| | | With COMPUT25 Interface: -MS30/50 Standard Unit | | | | | | • | |
| | MYCOM | Modbus Compatible Compressors | | | | • | | | |
| | Trane Company | Chillers with CH530 Controller and LCI-C Interface | | | | • | | | |
| | | Through the BCU: -All Chillers | • | | | | | | |
| -Chiller System Controls | -Chiller System Controls | | | | | | | | |
| | YORK International | With MicroGateWay: -YK Centrifugal Chillers -YG Gas Engine Chillers -YT Centrifugal Chillers -Air-Cooled Reciprocating Chiller: YCAR -Water Cooled Reciprocating Chillers: YCWZ/YCWJ | • | | | • | | • | |
| -Recipak Chillers: YEA/YDA -Air-Cooled Scroll Chiller: YCAL -Isoflow Absorption Chiller: YIA -Paraflow Absorption Chiller: YPC -Air-Cooled Screw Chiller: YCAS -Water Cooled Screw Chiller: YCWS | | | | | | | | | |



Fire/Life Safety

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|--|-------------------------------------|---|------------------|---------|--------|-----|------------------|---------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P-I FLN | ELN HW |
| Fire / Life Safety | AutroSafe | Autronica Fire Alarm Control Panel (Europe/Asia only) -BS310 System -BS320 System | | | | | | ● | |
| | Edwards Systems Technologies (EST) | -EST2 | | | | | | ● | |
| | | -EST3 | | | | | | ● | |
| | | -FCC | | | | | | ● | |
| | | -IRC-3 | | | | | | ● | |
| | FFE | -FFE Fire Control System (Europe/Asia only) | | | | | | ● | |
| | Notifier | -AFP1010 -AM1010 -AM2020 | | | | | | ● | |
| | Siemens Building Technologies, Inc. | -ALS2 | | | | | | ● | |
| | | -ALS3 (APOGEE Field Panel or Insight Life Safety Option) | | | | | | ● | |
| | | -Algorex CS11 (Europe/Asia only) | | | | | | ● | |
| -FireFinder XLS (APOGEE Field Panel or Insight Life Safety Option) | | | | | | | ● | | |
| Simplex | -2100 -2120 | | | | | | ● | | |
| | -4020 -4100 -4120 | | | | | | ● | | |




Security/Access Management

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|--|------------------------|--|--|---------|--------|-----|------------------|---------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P-I FLN | ELN HW |
| Security/ Access Management | ADC Technologies, Inc. | -ADC Card Access System (Asia Pacific Region Only) | | | | | | ● | |
| | GE (fka InfoGraphics) | -Diamond I -Diamond II -Sapphire Pro | | | | | | ● | |
| | | Siemens Building Technologies, Inc. | Advantage (Europe/Asia only) -CX 17 | | | | | | ● |
| | | | -SiPass | | | | | | ● |



Building Automation Systems

Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | | |
|---|-------------------------------------|---|------------------|---------|--------|-----|------------------|--------|--------|--|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW | |
|  Building Automation Systems | Alerton | -BACTalk | • | | | | | | | |
| | Batigyr | -Batibus RCE 86 HVAC Controllers | | | | | | • | | |
| | Carrier | -Carrier One | | | | • | | | | |
| | Honeywell | -Excel 5000 | | | • | • | | | | |
| | | Through the EBI: -Excel Plus -Excel | | • | | | | | | |
| | Invensys | -Inview | | | | | • | | | |
| | | Barber-Coleman: -Network 8000 | | | | | | | • | |
| | | Siebe: -I/A Series | | | • | | | | | |
| | Johnson Controls, Inc. | -Metasys -Companion -Faciliator Systems | | | | | | | • | |
| | | -BACnet Compatible Systems and Components | | • | | | | | | |
| | Siemens Building Technologies, Inc. | NICO AS1000 Controllers (Europe/Asia only) -RS Bus | | | | | | | • | |
| | TAC | -Vista Xenta | | | • | | | | | |
| | | CSI Systems: -INET 4 -INET2000 | | | | | | | • | |
| | Trane | -Tracer Summit System | | • | | | | | | |
| Tridium | -Jace | | • | | | | | | | |



Power & Energy

Supported Method




| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|-------------|---|---|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1/FLN | FLN/HW |
| | APC | InfraStruXure System Devices: -InfraStruXure Manager -Rackmount PDU | | | | • | | | |
| | ASCO | Automatic Transfer Switch Systems: -Power Manager Xp -Powerquest Data Monitor | | | | • | | | |
| | Autometer | -AutoMeter IC 850 -IC Series | | | | • | | • | |
| | Carma Industries, Inc. | -Energy Monitoring Pod (EMP) -Utilities Profiler | | | | | | • | |
| | Crompton Industries | Crompton Integra Meters (Europe/Asia only): -1000 Meter -2000 Meter | | | | | | • | |
| | Cutler-Hammer/Eaton | Incomm Devices through mMINT, Netlink, or MINT II: -AEM II -Addressable Relay II -Digitrip 810 -Advantage Starters -IQ Series Meters -Advantage Control Module ACM -IQ Transfer -Central Monitoring Unit CMU | | | | • | | • | |
| | Cyberex | Superswitch Static Transfer Switch systems: -DSTS Series -DSTS/PDU | | | | • | | | |
| | DLX | DLX Communication Controller (Europe/Asia only): -VIPD3 EIControl Meter | | | | | | • | |
| | Electro Industries | -Futura Plus Series Meters -Nexus Series Meters | | | | • | | | |
| | ESB | -SAGA 2300 | | | | • | | | |
| | GE | Powerleader and Multilin meters: -EPM -PQM -MTM | | | | • | | | |
| | Gossen Metrawatt (Europe/Asia Only) | -A2000 Multifunctional Power Measurement Meter | | | | | | • | |
| | Johnson Controls, Inc. | -Circuitor CVMk Metasys N2 Power Meters | | | | | | • | |
| | Liebert Corporation | Through SiteLink or OpenComms NIC card: -Contact Closure Module – CCM -Dual Output Breaker Static Switch PDU – STS -Static Switch PDU – EDS -Power Monitoring Panel – PM2/PMP -Volt Current Frequency Monitoring Panel – VCF -Volt Current Monitoring Panel – VCM | | | | • | | | |
| | Merlin Gerin | -Sepam 2000 | | | | • | | | |
| | Nilsen Industries | -D-PRO – Nilstat Monitor | | | | • | | | |
| | Power Measurement | ION System Devices: -6000 Series -7000 Series -8000 Series -ION Enterprise Software | | | | • | | | |
| | Siemens Energy and Automation | ACCESS System Devices: -4000 Series -9000 Series -Static Trip III -SAMMS -WinPM.NET Software | | | | • | | | |
| | Siemens Building Technologies, Inc. | Digital Energy Monitors: -DEM 1000 -DEM 2000 | | | | | | | • |
| | Siemens Power Transmission and Distribution | -Simpro Motor Protection Relays | | | | • | | | |
| | Square D | PowerLogic Legacy Devices: -CM2000 -PM600 PowerLogic Current Devices: -CM3000 -CM4000 -PM600 -BCM42 | | | | • | | | • |
| | Veris | -H8035 -H8036 -H704 -H8238 | | | | • | | | |



Power Monitoring & Distribution



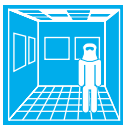
Power & Energy

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|--|-------------------------------------|--|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW |
|  UPS | APC | Through BMI (Building Management Integration) Card: -Symmetra -Silcon -Matrix-UPS -Smart-UPS InfraStruXure System Devices: -InfraStruXure Manager -Symmetra Rackmount UPS | | | | ● | | | |
| | Liebert Corporation | Through SiteLink or OpenComms NIC card: -Multi Module Series – MM4 -Single Module Series – SMS -Multi Module Series – MMS -Single Module Series – SM3 -Multi Module Series SMM -Single Module Series – SM4 -NPower Series IMP -Single Module Series – SSM -UPS Station S3 – US3 | | | | ● | | | |
| | MGE | -Galaxy -EPS 6000 -Comet | | | | ● | | | |
| | Mitsubishi | -9800 Series -MUCM Converter | | | | ● | | | |
| | Powerware (Invensys) | Through Powerware Modbus Card: -5000 Series -9000 Series -9 Prestige -Plus Series -Powervision or Foreseer Software | | | | ● | | | |
| | | | | | | | ● | | |
|  Generators | Caterpillar | Through CCM and SCM Translator Module: -EMCP11 -EMCP11+ | | | | ● | | | |
| | Cummins/Onan | -Power Command Digital Master Control | | | | ● | | | |
| | Kohler | Decision Maker Controllers: -DEC 340 -DEC 550 | | | | ● | | | |
| | Waukesha Engine | -Woodward EGCP-2 | | | | ● | | | |
|  Other Metering | Onicon Incorporated | -System-10-P1 BTU Meter | | ● | | | | | ● |
| | Controlotron | -BTU Meter | | | | ● | | | |
| | Siemens Building Technologies, Inc. | Heat/Flow Meters (M-Bus): (Europe/Asia only) -WZC-P60 Signal Converter -WZC-P250 Signal Converter -SONOHEATÒ 2WR5 range of Energy Meters -MEGATRONÒ 2 WFN/M21 range of Energy -SCM03 (MWZ03) Energy Integrator -AEW21.1 Impulse Adapter -SC437-9 Energy Integrator | | | | | | ● | |






Lighting

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|---------------------|-------------------------------------|--|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | ELN HW |
| Lighting | Brylyn Enterprises | -Photon 4 Lighting Controller (Europe/Asia only) | | | | | | ● | |
| | Clipsal | -C-Bus Lighting Management System | | | | | | ● | |
| | Cristal Controls | -SCR LONNCC32 | | | ● | | | | |
| | Douglas Controls | -PDM MC-6000 | | | | | | ● | |
| | | -W-2000 | | | ● | | | | |
| | GE | -TLC | | | | | | ● | |
| | | -Prosys | | | ● | | | | |
| | GENTEC | -Kameleon CCE | | | ● | | | | |
| | HWASIN Industrial | -Litrol (Asia Only) | | | ● | | ● | | |
| | Intelligent Lighting | -Quanta | -Lightmaster | | | | ● | | |
| | | -Digital Microwatt | -Gaphik Eye 6000 | ● | | | | | |
| | MicroLite | -System 600 | | | | | ● | | |
| | | -System 1000 | | | | | | ● | |
| | PCI Lighting | -ControlKeeper | | | | ● | | | |
| | Siemens Building Technologies, Inc. | -DESIGO RX (Europe/Asia only) | | | | | | ● | |
| | Siemens Energy and Automation | -LCP 2000 | -LCP 2500 | | | | ● | | |
| | | -PowerLink AS | | | | | | ● | |
| | Square D | -PowerLink G3 | | | | | ● | | |
| | | -Matrix Controls | | | | | | ● | |
| Triatek | -Triatek Lighting Control System | | | | | | ● | | |
| Wattstopper | -Complete Control | | | | | | ● | | |





Critical Environments

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | | |
|--|-------------------------------------|--|------------------|---------|--------|-----|------------------|--------|--------|--|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW | |
|  Gas Detection | Zellweger Analytics | -System 16 -CM4 | | | • | | | | | |
| | | -System 57 | | | | • | | | | |
| | Siemens Building Technologies, Inc. | -Cerberus CC60 Cergas system (Asia-Pacific Only) | | | | | | • | | |
|  Particle Measurement | Climet | -CI 3110 -CI 500EX | | | | | | • | | |
| | Met-One | -227 Series -237 Series -2100 Series -2200 Series -2408 Series -R4800 Series | | | | | | • | | |
|  Lab Systems | Air Master Systems | -Fume Hoods (AMS A-B-C) | | | | | | | • | |
| | Fisher Hamilton, Inc. | -Safeaire Fume Hoods | | | | | | | • | |
| | Forma Scientific | -Water Jacketed Incubators (31xx Series) | | | | | | • | | |
| | Hemco | -Uniflow Fume Hoods | | | | | | | • | |
| | Kewaunee | Fume Hoods -Visionaire -Hoodaire -Airflow Supreme | | | | | | | • | |
| | Keur, Inc. | -Fume Hoods | | | | | | | • | |
| | Labconco | -Protector Series Fume Hoods | | | | | | | • | |
| | Newaire, Inc. | -Bench Top and Walk-In Fume Hoods | | | | | | | • | |
| | Phoenix Controls | -Celeris II System | | • | | | | | | |
| | | -Celeris System | | • | | • | | | | |
| | Tek-Air | With SmartLab System Interface: -SmartLab Controller -Fume Hood Controller -SmartLab 2000 Controller | | | | • | | | | |
| | TSI Lab | With Modbus Controllers: | | | | • | | | | |
| -EverWatch Monitors | | -Pressura Controls | | | | | | | | |
| -SureFlow Controllers | | | | | | | | | | |





Industrial

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|--|--|--|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW |
|  <p>PLC (Programmable Logic Controllers)</p> | Allen-Bradley | Programmable Controllers: -SLC5/03 -SLC5/04 -SLC5/05 -PLC5 -ControlLogix -CompactLogix | | | | | | ● | |
| | | Programmable Controllers through ProSoft Module in PLC rack: -SLC5/00 with 3150 – MCM -ControlLogix with MVI56 – MCM | | | | ● | | | |
| | ASIC | ASIC Configurable Controllers (Europe/Asia only) -ASIC/2-7040 -ASIC/2-8040 | | | | | | ● | |
| | Burgess Electronics (Europe/Asia Only) | SAIA Process Control Devices: -PCD2 -PCD4 -PCD6 | | | | ● | | | |
| | Control Microsystems | -SCADAPAK | | | | ● | | | |
| | GE FANUC | -90 – 30 Series -90 – 70 Series | | | | ● | | | |
| | Koyo | -DL250 -DL350 -DL450 | | | | ● | | | |
| | Modicon | -984 Series -Quantum -Premium | | | | ● | | | |
| | Omron IDM | -SYSMAC – C200H/HS PLC with NT Screens | | | | ● | | | |
| | Siemens Automation and Drives | SIMATIC Controllers: -S7200 -S7300 -S7400 -505 | | | | ● | | | |
| | Square D | -SY/MAX Series | | | | ● | | | |
| Westinghouse | -PC – 2000 Series | | | | ● | | | | |
|  <p>I/O (Input-Output Systems)</p> | Opto 22 | OPTOMUX Brain Boards: -B1 -B2 | | | | | | ● | |



Operator Workstations


Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | | |
|--|-------------------------------|--|------------------|---------|--------|-----|------------------|--------|--------|--|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW | |
|  SCADA/ Manufacturing Systems | ABB | -Advant SCADA | | | | • | | | | |
| | AMX | -Phast | | | | • | | | | |
| | Axeda | -Web@aglance | | | | | • | | | |
| | Ci Technologies | -Citect | | | | | • | | | |
| | Crestron | -Isys | | | | • | | | | |
| | Datatrax | -SCADA | | | | • | | | | |
| | Eutech | -Performantz VAS | | | | | • | | | |
| | Fisher-Rosemount | -DeltaV | | | | | • | | | |
| | GE FANUC | -Cimplicity -Intellution iFix -Intellution FIX32 | | | | • | • | • | | |
| | Iconics | -Genesis 32 | | | | | • | | | |
| | OSI | -OSI Pi | | | | | • | | | |
| | Rockwell Automation | -RSView -RSLinx | | | | | • | | | |
| | Siemens Energy and Automation | -WinCC | | | | | • | | | |
| | USDATA | -FactoryLink ECS | | | | | • | | | |
| | Wonderware | -FactorySuite InTouch | | | | | • | • | | |
|  Enterprise Applications | Micromuse | -Netcool | | | | | | • | | |
| | Hewlett Packard | -Open View | | | | | | | • | |




Air Compressors

Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | | |
|---|----------------|---|------------------|---------|--------|-----|------------------|--------|--------|--|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW | |
|  Air Compressors | Atlas Copco | -Air Compressors with COM2 Module Installed | | | | • | | | | |
| | Cooper | -TurboCompressor | | | | • | | | | |
| | Ingersoll-Rand | -Centac -MP3 | | | | • | | | | |
| | Sullair | -Supervisor II | | | | • | | • | | |




Fuel Tanks

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|--|--------------|--|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW |
|  Fuel Tanks | Pneumercator | Tank Management Systems: -TMS2000 -TMS3000 | | | | | | ● | |
| | Veeder-Root | Tank Monitoring Systems: -TLS300 -TLS350 -TLS350R | | | | | | ● | |




Variable Frequency Drives

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|---|-------------------------------------|--|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW |
|  Variable Frequency Drives | ABB | -ACH 400 -ACH 500 -ACH 550 | | | | | | | ● |
| | | -ACS 600 -ACS 800 | | | | | | | ● |
| | AC Tech | -MCH | | | | | | | ● |
| | Cutler-Hammer/Eaton | -IS905 -HV9000 | | | | | | | ● |
| | Danfoss Graham | -VLT 35000 -VLT 6000 | | | | | | | ● |
| | GE-Fuji | -AF300E\$ -AF 300 F11 -AF 300 G11 -AF 300 P11 | | | | | | | ● |
| | Hitachi | -J300 -L100 -L300P | | | | | | | ● |
| | Omron IDM | -P5+ -E7 | | | | | | | ● |
| | Robicon | -454 GT | | | | ● | | | |
| | Rockwell Automation | -Allen-Bradley PowerFlex 7 | | | | | | | ● |
| | | -Allen-Bradley 1336 Plus II | | | | ● | | | |
| | | -Reliance VTAC 7 -Reliance VTAC 9 | | | | | | | ● |
| | Saftronics | -FP5 -GP10 | | | | | | | ● |
| | Siemens Building Technologies, Inc. | -Micromaster MM440 Speed Drives (Europe/Asia only) | | | | | | ● | |
| | | -SED2 | | | ● | | | | ● |
| | Siemens Energy and Automation | -ECO1 | | | | | | | ● |
| | Square D | -Altivar 38 -Altivar 58 -Altivar 66 | | | | | | | ● |
| | TB Wood's | -W2 E-Flow | | | | | | | ● |
| | Toshiba | -E3 -Q FlowSaver II | | | | | | | ● |
| | Yaskawa/MagneTek | -E7 | | | ● | | | | ● |
| -GPD505 -GPD506 | | | | | | | | ● | |
| YORK International | -Air-Mod | | | | | | | ● | |



Elevators


Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|---|----------------------------|------------------|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW |
|  Elevators | Integrated Display Systems | -LIFT NET | | | | • | | | |
| | | | | | | | | | |



Hotel Systems

Supported Method

| Application | Manufacturer | System/Equipment | Supported Method | | | | | | |
|---|----------------------|----------------------------------|------------------|---------|--------|-----|------------------|--------|--------|
| | | | BACnet | LonTalk | Modbus | OPC | Specialty Driver | P1 FLN | FLN HW |
|  Hotel Systems | INNCOM International | Through the CIS Interface | | | | | | • | |
| | Maxial | Hyadvantage Hotel Booking System | | | | | | • | |



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Siemens Building Technologies, Inc.

1000 Deerfield Parkway
Buffalo Grove, IL 60089-4513
Tel. (847) 215-1000

Siemens Building Technologies, Ltd.

2 Kenview Boulevard
Brampton, Ontario
Canada L6T 5E4
Tel. (905) 799-9937

Siemens Building Technologies, Ltd.

3/F., Laford Centre,
838 Lai Chi Kok Road
Kowloon, Hong Kong
Tel. (852) 2917-5700

Siemens Building Technologies, Ltd.

Hawthorne Road
Staines, Middlesex TW18 3AY
United Kingdom
Tel. 44 1784 46 16 16

www.sbt.siemens.com

Building Technologies

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